

Claims

1. A device for coding, i.e. identifying and addressing as well as marking objects, in particular objects made of plastics, rubber or materials similar to rubber, whereby the device comprises at least the following components:

- a coding and marking system (1, 1', 1'', 1'''); and
- a scanner unit with the help of which the coding and marking is detected and read out within contact;

characterized in that

- the coding and marking system (1, 1', 1'', 1''') is completely embedded in the object, in a manner such that the outer shape and the function of the object are not impaired; and, furthermore that
- the scanner unit is moved passed the stationary object, or alternatively the object is moved passed the stationary scanner unit.

2. The device according to claim 1, characterized in that the coding and marking system (1, 1', 1'', 1''') comprises a matrix (3, 3', 3'', 3''') in particular made of plastic, rubber or a material similar to rubber, said matrix being embedded in the object, whereby detectable

material particles (2, 2', 2''), in particular metal pieces, permanent magnets (2''') or in particular dense or light plastic particles are in turn embedded in the matrix at exactly fixed intervals in relation to each other and with good adhesion and in an undisplaceable manner.

3. The device according to claim 1, characterized in that the coding and marking system comprises a matrix in particular made of plastic, rubber or a material similar to rubber, said matrix being embedded in the object, whereby magnetizable material, in particular ferrite material is admixed to the matrix, preferably with uniform distribution.

4. The device according to claim 2 or 3, characterized in that the matrix (3, 3', 3'', 3''') is adapted to the material-specific properties of the object.

5. The device according to any one of claims 1 to 4, in particular in association with the matrix (3, 3', 3'', 3''') according to any one of claims 2 to 4, characterized in that the coding and marking system (1, 1', 1'', 1''') is present in the form of a strip, a circular segment or a cylindrical segment.

6. The device according to any one of claims 1 to 5, characterized in that the coding and marking system (1, 1',

1'', 1''') is arranged within the object in one or more discrete zones.

7. The device according to any one of claims 1 to 6, characterized in that it is used for coding and marking conveyor belts and conveyor belt connections.

8. The device according to anyone of claims 1 to 6, characterized in that it is used for coding and marking tubular bodies, in particular hoses, hose connections and compensators.

9. The device according to any one of claims 1 to 6, characterized in that it is used for coding and marking profiled bodies, in particular large profiles, particularly again ship's fenders.

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